

SYM	REVISION	BY	APPR.	DATE

C. JENNEKENS, PE	MAY 2016
DESIGNED BY	DATE
G. LESOFSKI	15207
DRAWN BY	PROJECT NO.
K. JENSEN, PE	S-101
CHECKED BY	FILE

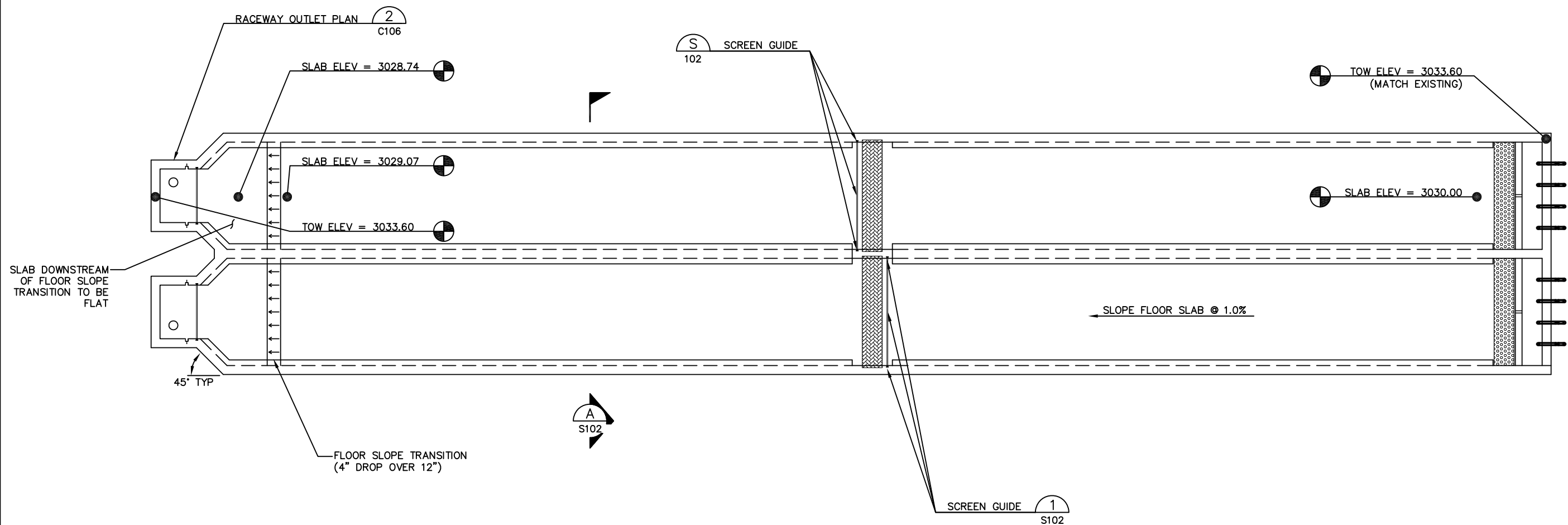
PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE  
**RACEWAY  
STRUCTURAL  
PLAN**

SHEET  
**S101**  
OF

**NOTES:**

1. RACEWAY CONCRETE TO BE COLORED USING AN INTEGRAL COLORING ADMIXTURE. USE DAVIS COLORS POWDER PIGMENT (OR EQUAL), DOSED AT 2 POUNDS PER SACK OF CEMENT. COLOR TO BE SELECTED BY OWNER.



**RACEWAY STRUCTURAL PLAN**  
SCALE: 1"=4'-0"  
C105

VERIFY SCALES  
BAR SCALE IS ONE INCH  
ON ORIGINAL DRAWING.  
0 1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

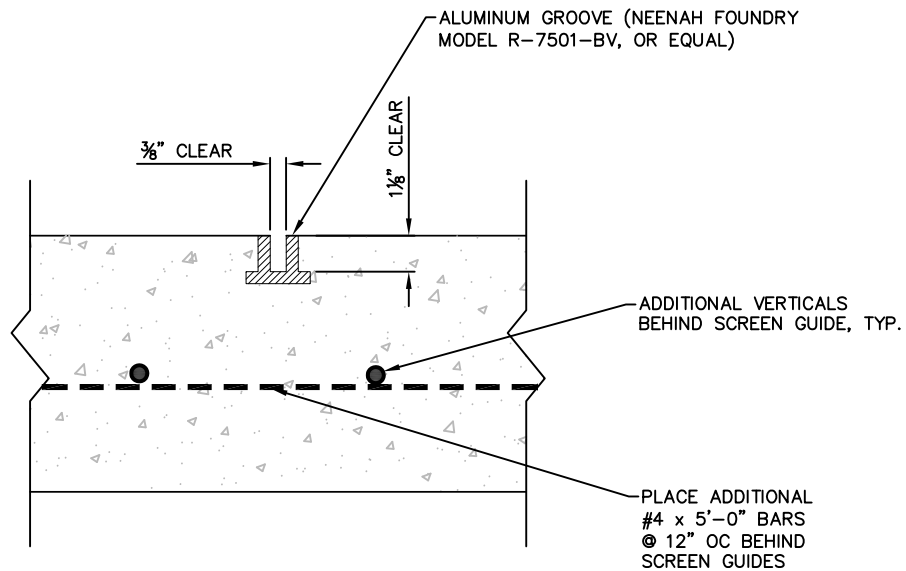
DATE	BY	APPR.	REVISION	SYM.

MAY 2016	15207	S-102
DATE	PROJECT NO.	FILE
C. JENNESKENS, PE	G. LESOFSKI	K. JENSEN, PE
DESIGNED BY	DRAWN BY	CHECKED BY

PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE  
**RACEWAY  
STRUCTURAL  
DETAILS**

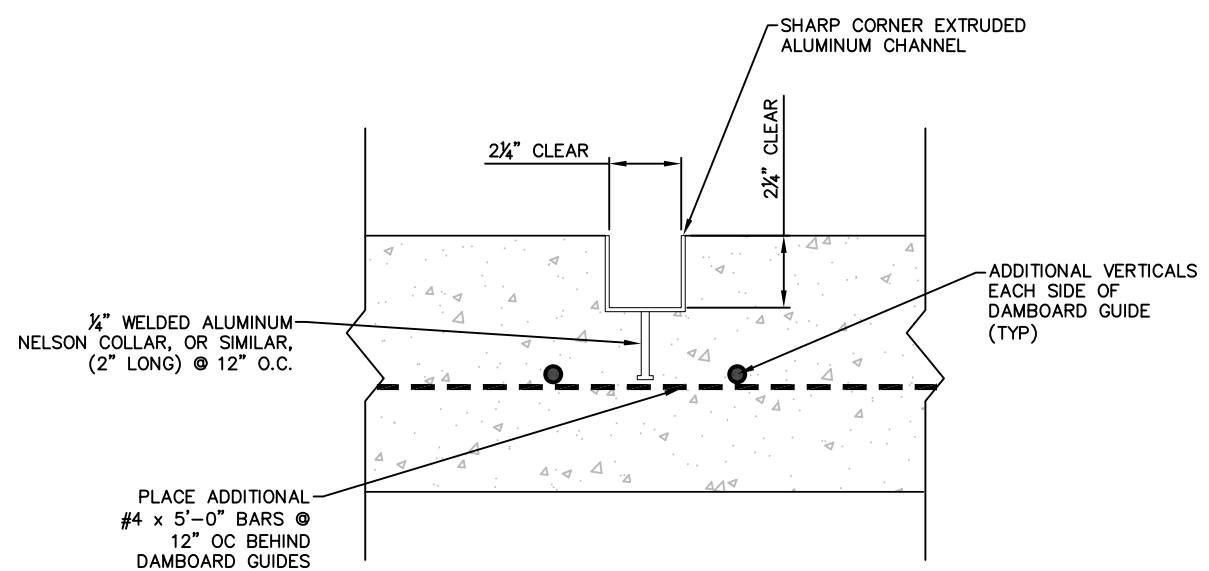
SHEET  
**S102**  
OF



NOTE:

- CONTRACTOR TO PROVIDE AND INSTALL GROOVES. SCREENS TO BE PROVIDED BY OWNER.
- GROOVES TO BE INSTALLED IN WALLS (FULL-HEIGHT) AND IN FLOOR SLAB.

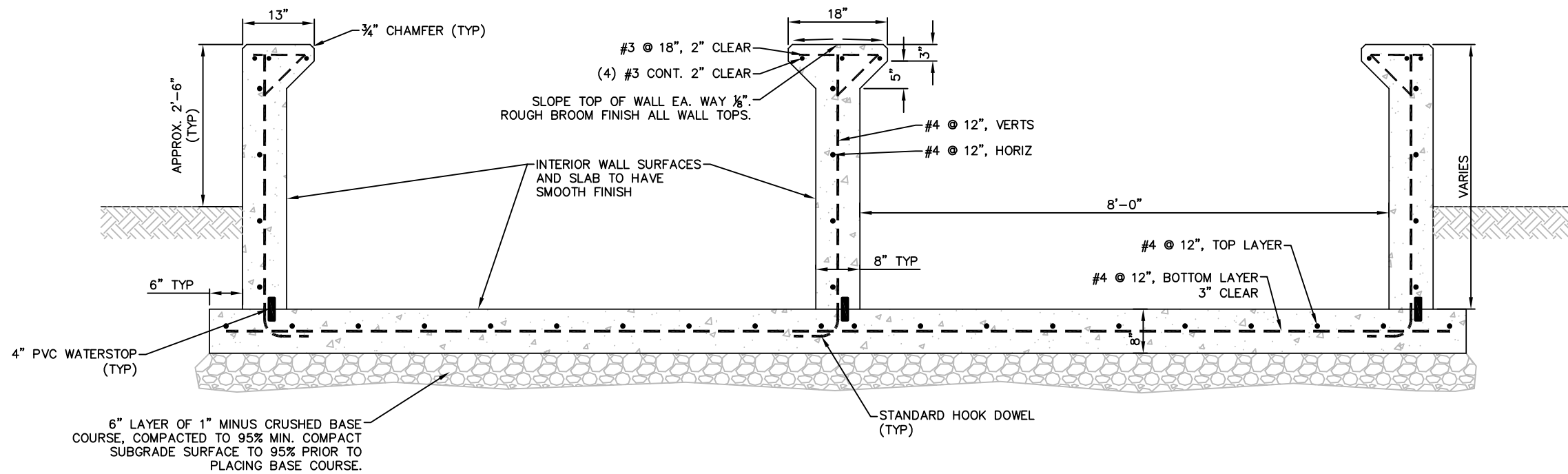
**SCREEN GUIDE**  
SCALE: NONE  
C106,S101,S201



NOTES:

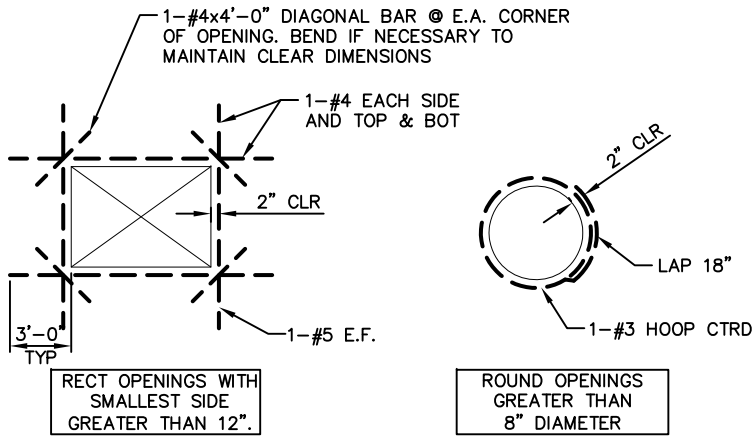
- DAMBOARDS TO BE PROVIDED AND INSTALLED BY OWNER.
- COAT BACK SIDES OF ALUMINUM CHANNEL WITH COAL TAR EPOXY.

**DAMBOARD GUIDE**  
SCALE: NONE  
C106,S101,S201

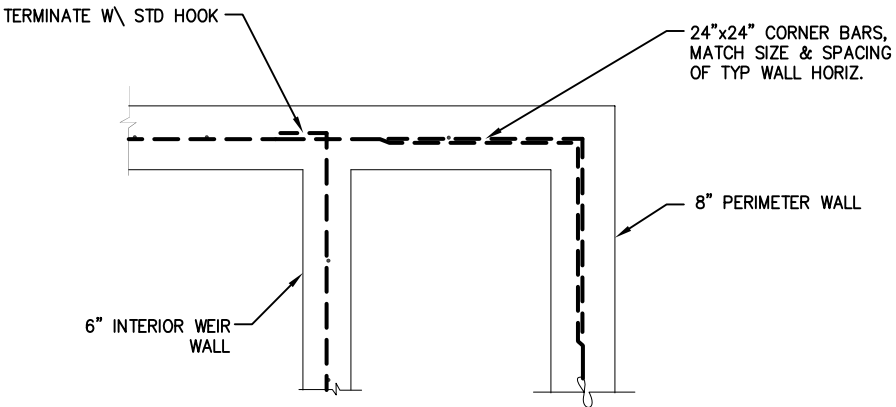


**SECTION**  
SCALE: 1/2"=1'-0"  
S101

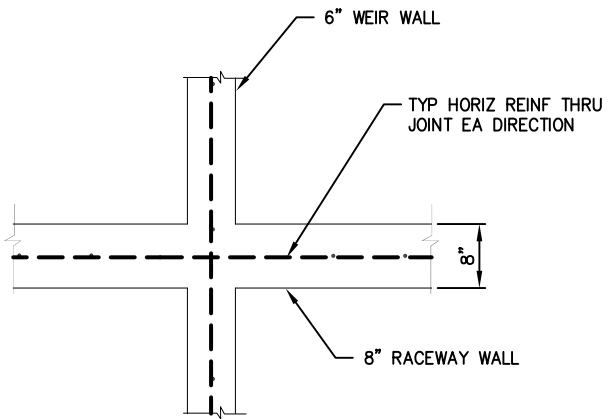
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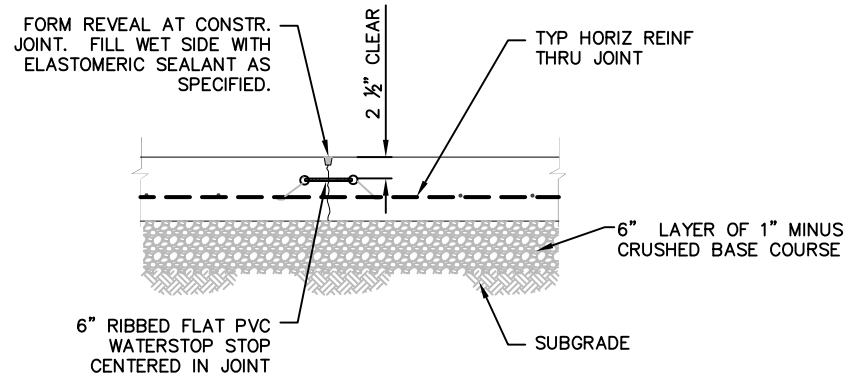
**OPENING REINF DETAIL** 1  
SCALE: NONE



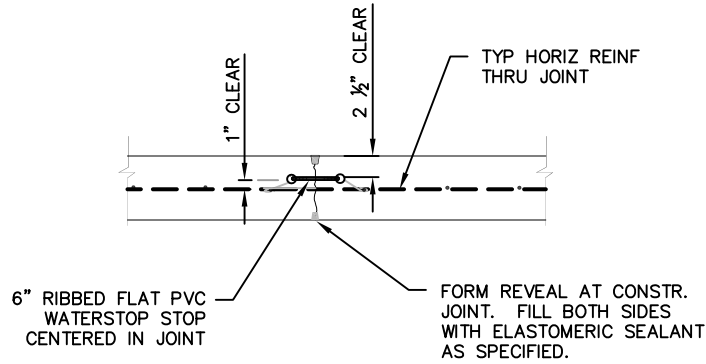
**RACEWAY WALL REINF DETAIL** 2  
SCALE: NONE



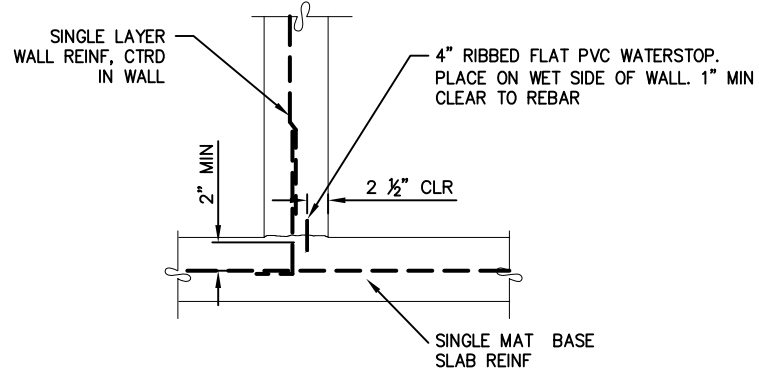
**RACEWAY WALL REINF DETAIL** 3  
SCALE: NONE



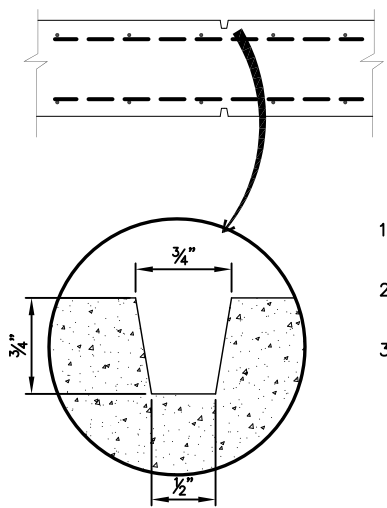
**BASE SLAB CONSTRUCTION JOINT** 4  
SCALE: NONE



**CONC WALL CONSTRUCTION JOINT** 5  
SCALE: NONE

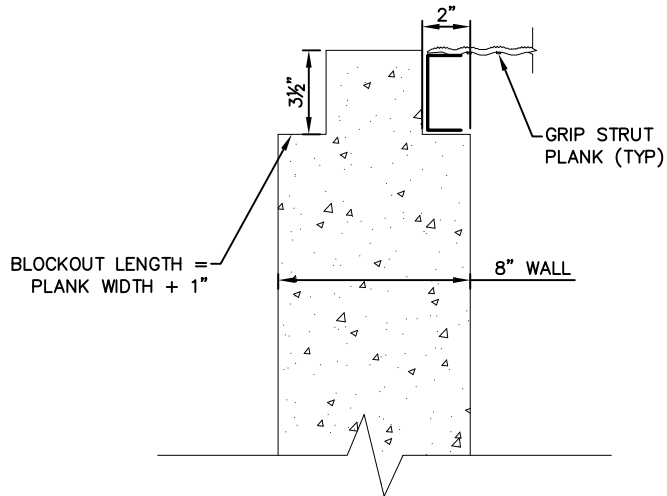


**WALL TO SLAB JOINT** 6  
SCALE: NONE



**WALL REVEAL** 7  
SCALE: NONE

1. CAST REVEAL WHERE INDICATED ON OTHER DETAILS.
2. WALL REINFORCING IS CONTINUOUS THROUGH JOINT.
3. CAULK AS INDICATED BY OTHER DETAILS.



**PLANK SEAT SECTION** 8  
SCALE: NONE

**NOTES:**

1. DETAILS ON THIS SHEET APPLY TO THE NEW RACEWAYS AND THE NEW SHOW POND.
2. ALL WALL AND SLAB CONSTRUCTION JOINTS REQUIRE WATERSTOPS. SEE WATERSTOP DETAILS ON THIS SHEET.
3. CONSTRUCTION JOINT LOCATIONS ARE NOT SHOWN AND SHALL BE LOCATED BY CONTRACTOR AND SUBJECT TO ENGINEER'S APPROVAL.
4. ALL EXPOSED CONCRETE EDGES TO INCLUDE 3/4" CHAMFER.

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**RPA**

DATE	BY	APPR.	REVISION	SYM.

MAY 2016				
DATE				
16207				
PROJECT NO.				
S-103				
FILE				

C. JENNESKENS, PE  
DESIGNED BY

G. LESOFSKI  
DRAWN BY

K. JENSEN, PE  
CHECKED BY

PROJECT TITLE

**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE

**GENERAL  
STRUCTURAL  
DETAILS**

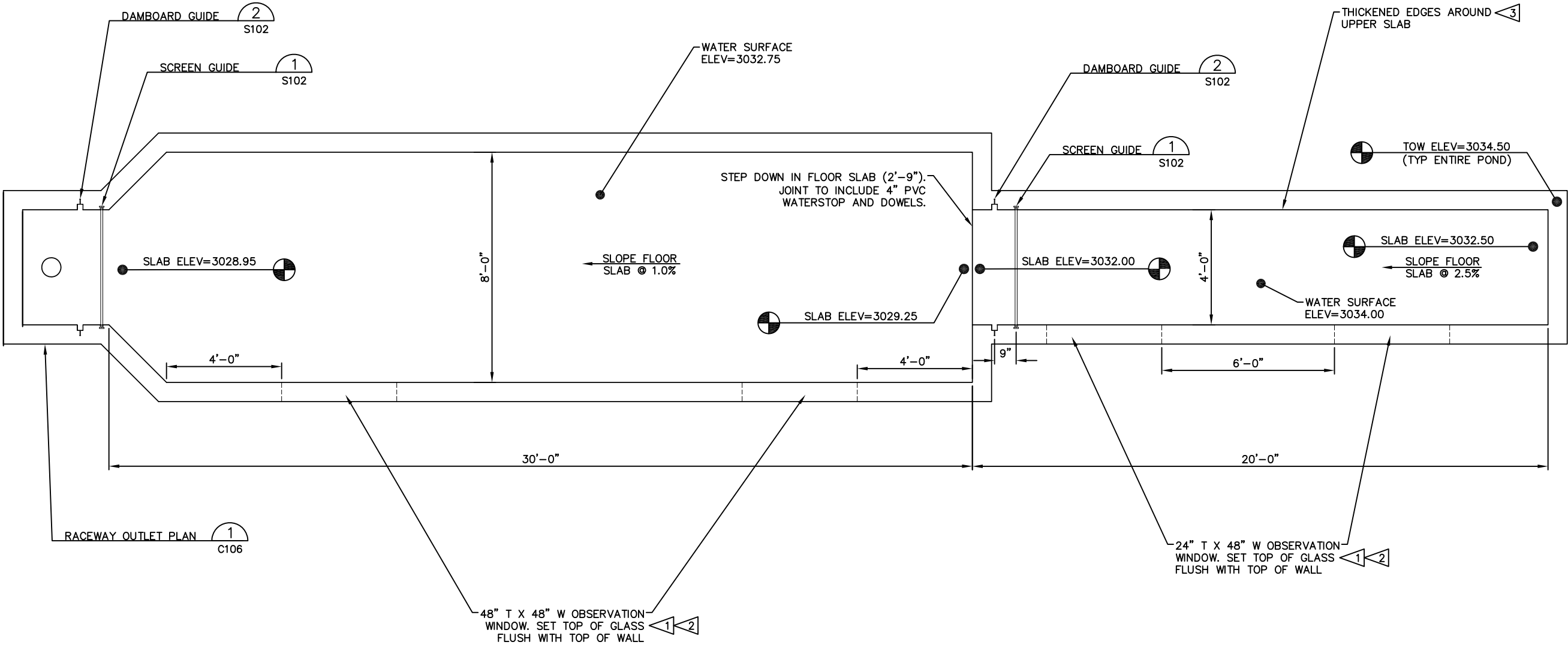
SHEET

**S103**

OF

NOTES:

- 1 CONSTRUCT OBSERVATION WINDOWS OF 3/4" CLEAR TEMPERED LAMINATED GLASS, MADE UP OF TWO LAYERS OF 3/8" CLEAR TEMPERED GLASS WITH A 0.060" VINYL INNER LAYER. WINDOWS SHALL INCLUDE AN ALUMINUM OR STAINLESS STEEL FRAME AROUND THREE SIDES, CAST INTO THE CONCRETE WALL. FRAME TO INCLUDE 3" LONG HEADED ANCHOR STUDS (OR SIMILAR) AT 12" ON CENTER AROUND THE THREE EMBEDDED SIDES, TO ANCHOR FRAME INTO CONCRETE WALL. ALL JOINTS BETWEEN THE GLASS AND FRAME, BOTH WET SIDE AND DRY SIDE, SHALL BE SEALED TO BE WATERTIGHT WITH A SEALANT THAT IS COMPATIBLE WITH THE GLASS AND METAL FRAME, AND IS FORMULATED AND INTENDED FOR CONSTANT WATER IMMERSION (SONOLASTIC POLYSULFIDE SEALANT, OR EQUAL). WINDOW SUPPLIER REFERENCE: VALLEY GLASS OF KALISPELL, MATT HARTLEY, 406-257-9200.
- 2 WINDOWS TO INCLUDE SMOOTH METAL CAP (ALUMINUM OR STAINLESS STEEL).
- 3 CONSTRUCT UPPER SLAB WITH THICKENED EDGES, SUCH THAT BOTTOM OF THICKENED EDGES MATCHES BOTTOM ELEVATION OF LOWER SLAB. THICKENED EDGE TO BE 8" WIDE MINIMUM AT BOTTOM, AND INCLUDE (4) #4 BARS, CONTINUOUS.



**SHOW POND STRUCTURAL PLAN**  
SCALE: 1"=2'-0"

1  
C201

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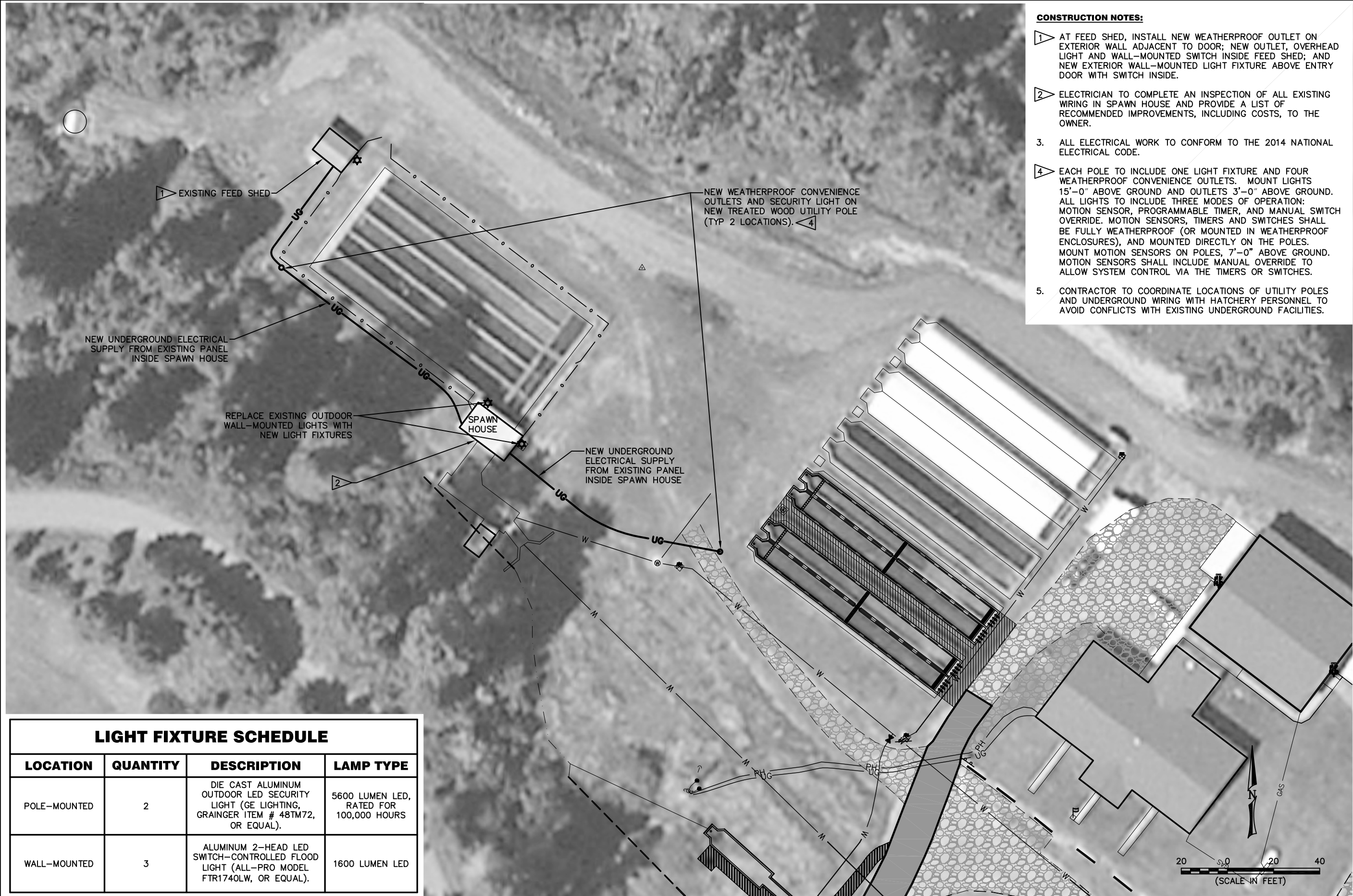
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Arlee, Montana

SHEET TITLE  
**SHOW POND  
STRUCTURAL PLAN**

SHEET  
**S201**  
OF

F:\Jedex\15207 - Jocko River Hatchery\Jocko - C30\CADD\Sheets\E-101.dwg May 10, 2016



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K. JENSEN, PE	E-101
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PROJECT TITLE

**Jocko River Trout Hatchery  
Raceway Replacement**

Arlee, Montana

SHEET TITLE

**ELECTRICAL PLAN**

SHEET

**E101**

OF